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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P/63564/GPTU73			FOR FURTHER ACTIO		ion of Transmittal of International Examination Report (Form PCT/IPEA/416)	
International application No.			International filing date (day)	nonth/year)	Priority date (day/month/year)	
PCT/GE	3 03/01	373	28.03.2003	•	28.03.2002	
Internatio H04L12		nt Classification (IPC) or bo	hth national classification and IF	С	· ·	
· · · · · · · · · · · · · · · · · · ·		• •				
Applicant MARCC		(INTELLECTUAL PR	OPERTY LTD et al.			
			nination report has been pre applicant according to Artic		ternational Preliminary Examining	
2. Th	is REP	ORT consists of a total o	of 7 sheets, including this co	ver sheet.		
	bee	n amended and are the l	nied by ANNEXES, i.e. shee pasis for this report and/or s n 607 of the Administrative In	neets containing	otion, claims and/or drawings which have I rectifications made before this Authority or the PCT).	
Th	ese an	nexes consist of a total o	f sheets.			
		i			· •	
3. Th	is repo ⊠	rt contains indications re Basis of the opinion	lating to the following items:		•	
H		Priority				
111	$\boxtimes$	Non-establishment of	opinion with regard to novel	novelty, inventive step and industrial applicability		
IV		Lack of unity of inventi				
V		Reasoned statement u citations and explanati	inder Rule 66.2(a)(ii) with re ons supporting such statem	gard to novelty, ent	inventive step or industrial applicability;	
VI		Certain documents cite	ed			
VII	VII   Certain defects in the International application					
VII	VIII 🔲 Certain observations on the international application					
Date of submission of the demand				e of completion of	this report	
20.10.2003			29	29.04.2004		
		g address of the internation	al Au	Authorized Officer		
prelimina	Eu D-4	Ining authority: ropean Patent Office 30298 Munich 1: +49 89 2399 - 0 Tx: 5236	Bu	b, A		
Fax: +49 89 2399 - 4465			•	ephone No. +49 8	9 2399-7209	

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/01373

i.	Bas	is o	f th	e re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages					
	1-2	4	as originally filed				
	Cla	ims, Numbers					
	1-8		as originally filed				
	Dra	wings, Sheets					
	1/9-	7/9, 9/9	as originally filed				
2.	Witl lanç	h regard to the <b>langu</b> guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ternational application was filed, unless otherwise indicated under this item.				
	The	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of pub	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.			ectide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		furnished subseque	ntly to this Authority in written form.				
		furnished subseque	ntly to this Authority in computer readable form.				
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.				
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.				
4.	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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5.		This report has been established been considered to go beyond	ed as it the dis	f (some of) th sclosure as fi	ne amendments had not been made, since they have led (Rule 70.2(c)).		
		(Any replacement sheet contain report.)	ning sı	uch amendm	ents must be referred to under item 1 and annexed to this		
6.	Add	itional observations, if necessa	ry:				
<b>III.</b>	Nor	n-establishment of opinion wi	th reg	ard to novel	ty, inventive step and industrial applicability		
1.	The obv	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-byious), or to be industrially applicable have not been examined in respect of:					
		the entire international application	tion,				
	Ø	claims Nos. 5					
		because:					
		the said international application not require an international pre	on, or t elimina	the said clain ry examination	ns Nos. relate to the following subject matter which does on (specify):		
		the description, claims or draw that no meaningful opinion cou	rings <i>(i</i> uld be t	indicate parti formed (spec	cular elements below) or said claims Nos. are so unclear cify):		
		the claims, or said claims Nos could be formed.	. are s	o inadequate	ly supported by the description that no meaningful opinion		
		no international search report	has be	en establish	ed for the said claims Nos.		
<ol><li>A meaningful international preliminary examination cannot be carried out due to the failure of to or amino acid sequence listing to comply with the standard provided for in Annex C of the Adm Instructions:</li></ol>				nnot be carried out due to the failure of the nucleotide and ndard provided for in Annex C of the Administrative			
		the written form has not been	furnish	ned or does r	not comply with the Standard.		
		the computer readable form h	as not	been furnish	ed or does not comply with the Standard.		
٧.	Re:	asoned statement under Artic ations and explanations supp	ele 35( orting	2) with rega such state	rd to novelty, inventive step or industrial applicability; nent		
1.	Sta	tement					
	No	velty (N)	Yes: No:	Claims Claims	1-4, 6-8		
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-4, 6-8		
	ind	lustrial applicability (IA)	Yes: No:	Claims Claims	1-4, 6-8		
2.	Cit	ations and explanations					

see separate sheet

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Dependent claim 5 defines to reconfigure connections "but not every time in all ways possible". This formulation is so vague so that the reader of the claim is in doubt for which extent protection is thought. In effect, claim 5, taken as a whole, is considered so unclear in the sense of Article 6 PCT, so that it is impossible to establish an opinion on the defined subject-matter.

#### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: MUKHERJEE S ET AL: 'An adaptive connection admission control policy for VBRservice class' INFOCOM '98. SEVENTEENTH ANNUAL JOINT CONFERENCE OF THE IEEE COMPUTER AND COMMUNICATIONS SOCIETIES. PROCEEDINGS. IEEE SAN FRANCISCO, CA, USA 29 MARCH-2 APRIL 1998, NEW YORK, NY, USA,IEEE, US, 29 March 1998 (1998-03-29), pages 849-857, XP010270413 ISBN: 0-7803-4383-2

D2: LE BODIC G ET AL: 'Resource cost and QoS achievement in a contract-based resource manager for mobile communications systems' IEEE JOURNAL, 2000, pages 392-397, XP010515108

D3: DEVALLA B ET AL: 'Adaptive connection admission control for mission critical real-time communication networks' MILITARY COMMUNICATIONS CONFERENCE, 1998. MILCOM 98. PROCEEDINGS., IEEE BOSTON, MA, USA 18-21 OCT. 1998, NEW YORK, NY, USA, IEEE, US, 18 October 1998 (1998-10-18), pages 614-620, XP010307857 ISBN: 0-7803-4506-1

D4: SAHOO A ET AL: 'Adaptive connection management for mission critical applications over ATM networks' AEROSPACE AND ELECTRONICS CONFERENCE, 1998. NAECON 1998. PROCEEDINGS OF THE IEEE 1998 NATIONAL DAYTON, OH, USA 13-17 JULY 1998, NEW YORK, NY, USA,IEEE,

US, 13 July 1998 (1998-07-13), pages 128-135, XP010298934 ISBN: 0-7803-4449-9

#### 2. Independent claims

#### 2.1. Independent claim 1

The present application does not meet the requirements of Article 33(3) PCT, because the subject-matter of claim 1 is not considered to be involve an inventive step.

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):

A communications system comprising: a communications network comprising network nodes and network links between the network nodes; said connections utilizing network nodes and network links, in respect of each said connection there being a number of possible ways to implement the connection on the network (implicitly disclosed by the presence of "ATM networks" in D1, abstract),

when allocating a connection to the network, selecting one of the said number of possible ways to implement that connection (D1, abstract, "bandwidth renegotiation"),

when deciding whether to accept or reject a request for a said connection on said network, having the option to accommodate said request to reconfigure existing connection reconfigured (D1, abstract, "dynamic resource partitioning and dynamic resource redistribution among active connections"), a different one of the said number of possible ways to implement that connection, the reconfiguration being constrained to a set of possible reconfigurations which is a subset of the set of all possible reconfigurations of said existing connections on the network (D1, page 852, right-hand-column, line 9-13, "The new connection admission uses  $\beta$  fraction of the available resource and the rest is used for renegotiation. By adjusting  $\beta$  dynamically with the load and demand on the system, new admissions are regulated.").

The only difference between the disclosure of D1 and the subject-matter of independent claim 1 is that a network management system allocates the connection.

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The problem to be solved is considered as to determine and instance to allocate the connection. It is generally known that either a network management system can do the configuration as well as the network elements itself configure the new connection.

The feature of executing the renegotiation by the network management system is therefore merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, in order to solve the problem posed.

Furthermore, the formulation "having the option" is **not clear** in the sense of Article 6 PCT, because it is not clear which options in total are available. There is only defined "having the option to accommodate", but no further options are defined.

Additionally, the formulation is **unclear**, because the scope of protection is not clearly defined. As the formulation includes both cases, to accomodate and not to accomodate, it has no limiting effect to the scope of protection. In conclusion, the definition lets the reader in doubt to which extent protection is sought and is therfore unclear according to Article 6 PCT.

Furthermore, the formulation "a different one of the said number of possible ways to implement" is **not clear**, because it is not clear, in which way is to be implemented. Additionally, it is not clear to which of the possible ways the other way differs. Therefore, the claim is considered unclear according to Article 6 PCT.

### 3. Dependent claims

Dependent claims 2-4 and 6-8 do not contain any features which, in combination with the fea- tures of any claim to which they refer, meet the requirements of the Art. 33(3) PCT in respect of inventive step, the reasons being as follows:

Claims 2 and 8 define to only reconfigure reconfigurable connections, which is considered to be obvious.

Claim 3 and 4 define to change either the route or wavelength of the connection which are considered to be obvious design options.

Claim 6 defines to constrain the reconfiguration only to the standby path and not to the main path, which are considered obvious design options.

Claim 7 relates to having the option to choose both wavelength and route for implementing a connection, whereas for reconfiguration it is only possible to choose one of these parameters, which are considered to be obvious design options.

The formulation "it is possible" in dependent claim 7 is unclear, because the scope of protection is not clearly defined. As the formulation includes both cases, to choose or not to choose, it has no limiting effect to the scope of protection. In conclusion, the definition lets the reader in doubt to which extent protection is sought and is therfore unclear according to Article 6 PCT.

### Certain defects in the International application

- A. Sheet 8/9 (Figure 9) is missing in the application on file. Therefore, the description should be adapted accordingly (page 19, line 20 page 22, line 16.
- B. Any independent claim should be in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characteris- ing part (Rule 6.3(b)(ii) PCT).
- C. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.
- D. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).